

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P299395

Luminaire Tested: **GLNA-AF-01-LED-E1-SLR-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299395  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194679)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-01-LED-E1-SLR-7027-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill  
Light Eliminator Right OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

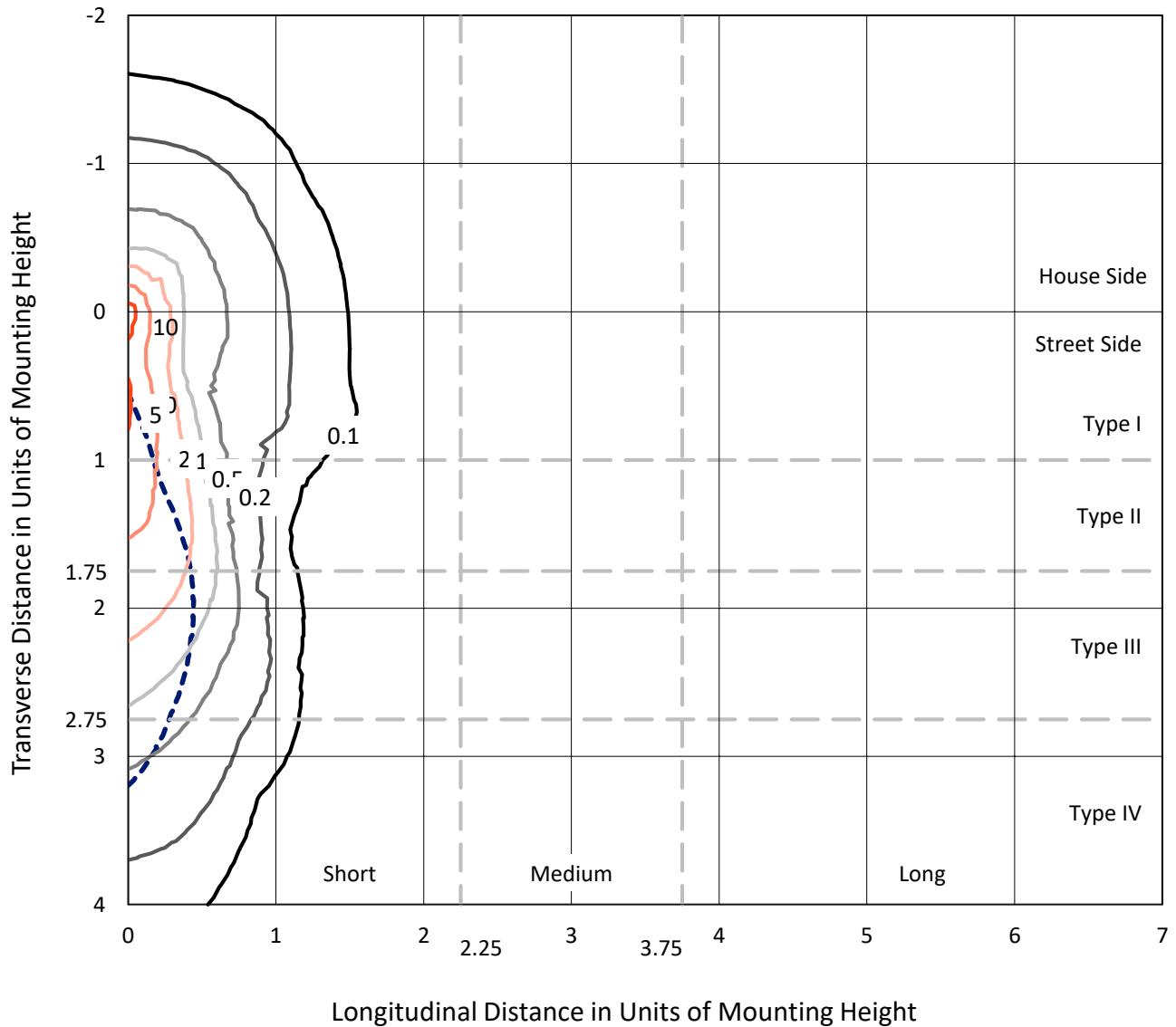
Lumens per Lamp: N/A  
Luminaire Lumens: 3831.8 lumens  
Efficiency: N/A  
Efficacy: 87.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P299395  
 CATALOG NUMBER: GLNA-AF-01-LED-E1-SLR-7027-800

### Iso-Footcandle Lines of Horizontal Illumination

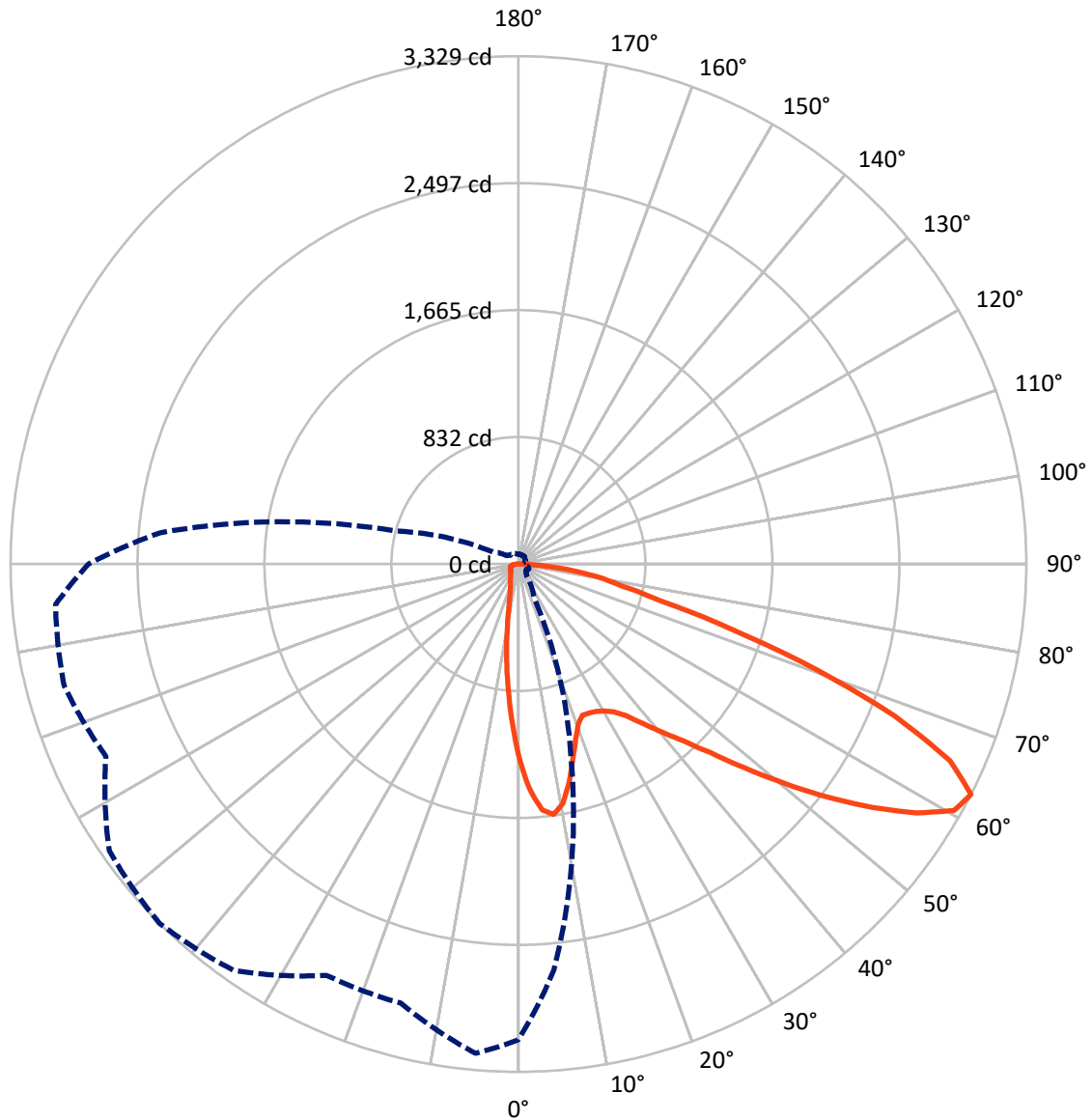
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.9 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P299395  
CATALOG NUMBER: GLNA-AF-01-LED-E1-SLR-7027-800

### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P299395

CATALOG NUMBER: GLNA-AF-01-LED-E1-SLR-7027-800

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	634.1	0.0	634.1
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	3197.7	0.0	3197.7
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	3831.8	0.0	3831.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.2	2.5
10°-20°	172.8	4.5
20°-30°	252.0	6.6
30°-40°	388.1	10.1
40°-50°	571.1	14.9
50°-60°	837.7	21.9
60°-70°	936.4	24.4
70°-80°	458.5	12.0
80°-90°	121.0	3.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3831.8	100.0
0°-180°	3831.8	100.0

**Coefficient of Utilization**



REPORT NUMBER: P299395

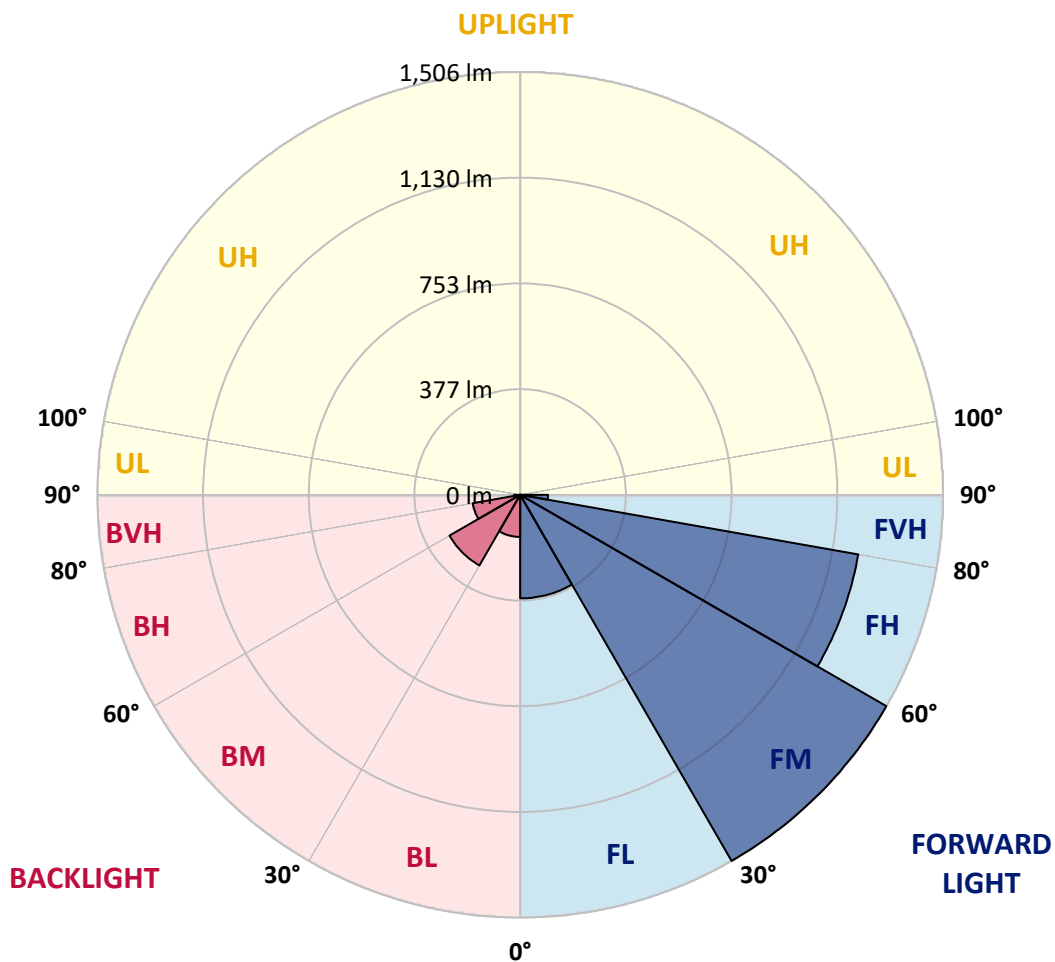
CATALOG NUMBER: GLNA-AF-01-LED-E1-SLR-7027-800

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	369.0	9.6			
FM	(30°-60°)	1506.3	39.3			
FH	(60°-80°)	1223.0	31.9			G1/1800
FVH	(80°-90°)	99.4	2.6			G1/100
BL	(0°-30°)	150.0	3.9	B1/500		
BM	(30°-60°)	290.5	7.6	B1/1000		
BH	(60°-80°)	171.9	4.5	B1/500		G1/500
BVH	(80°-90°)	21.6	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type IV Short





REPORT NUMBER: P299395

CATALOG NUMBER: GLNA-AF-01-LED-E1-SLR-7027-800

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6
2.5°	1345.1	1317.8	1272.2	1224.9	1196.0	1162.3	1136.0	1112.8	1066.5	1057.4	1065.6
5°	1264.9	1209.9	1124.2	1037.8	980.3	918.6	870.6	832.0	773.3	762.9	775.4
7.5°	1136.2	1070.5	957.2	847.0	765.7	688.6	636.8	595.5	549.6	529.8	531.0
10°	1025.2	951.0	817.1	697.2	630.7	578.6	535.0	492.7	446.1	415.6	407.2
12.5°	963.0	877.8	723.3	616.3	554.6	499.9	452.9	407.6	357.9	326.7	317.9
15°	952.3	859.6	688.2	564.5	487.2	417.9	362.5	312.0	260.7	235.5	230.2
17.5°	998.9	892.1	676.8	518.4	423.8	338.3	270.3	213.8	172.1	159.5	158.4
20°	1088.1	954.4	675.3	475.0	361.2	261.0	188.3	147.2	128.9	125.3	125.6
22.5°	1213.5	1051.1	693.4	442.4	303.7	194.6	141.6	123.2	116.1	112.7	112.7
25°	1375.7	1184.2	735.1	418.6	253.8	155.5	124.9	114.0	107.2	104.9	105.3
27.5°	1532.9	1313.8	783.6	399.8	221.1	141.1	118.4	108.5	102.6	100.2	101.3
30°	1655.4	1428.8	824.0	374.3	204.5	137.1	120.7	110.6	102.2	98.6	98.8
32.5°	1756.9	1529.5	857.9	356.0	189.8	117.5	104.1	99.6	98.6	94.4	92.3
35°	1886.7	1639.2	880.7	356.4	182.8	104.9	92.7	84.9	79.2	74.4	74.4
37.5°	2038.8	1765.2	904.9	361.2	180.3	97.5	88.7	80.9	75.6	71.0	70.1
40°	2189.2	1888.6	927.1	365.9	178.8	93.1	85.5	78.4	73.5	68.9	67.6
42.5°	2317.1	1990.1	946.8	368.2	173.8	92.7	83.2	76.6	72.1	67.0	65.7
45°	2411.7	2075.2	968.1	371.8	168.7	94.4	83.2	76.5	70.8	65.9	64.7
47.5°	2496.1	2175.1	1003.7	371.8	162.6	91.2	86.0	76.6	70.6	65.5	64.5
50°	2609.2	2312.0	1071.1	363.2	154.0	87.8	90.6	75.8	68.7	64.7	63.4
52.5°	2765.1	2487.5	1178.1	348.2	140.7	81.3	89.9	75.4	66.8	62.6	61.1
55°	2949.4	2675.3	1294.8	330.7	120.9	76.6	86.8	74.4	64.7	60.0	58.5
57.5°	3093.3	2804.7	1377.0	303.7	103.6	74.2	76.9	73.3	62.1	57.3	56.1
60°	3150.5	2799.6	1399.5	267.7	95.2	72.1	67.2	62.1	60.0	55.2	53.7
62.5°	3119.6	2670.3	1336.3	242.4	93.3	69.3	63.0	76.0	58.3	53.7	51.6
65°	2976.6	2441.1	1168.9	235.7	98.8	66.6	60.3	59.6	56.1	51.6	49.5
67.5°	2665.0	2098.6	935.9	236.3	105.7	63.8	57.5	54.6	52.9	49.3	47.4
70°	2170.7	1659.3	697.6	238.0	109.3	60.6	54.6	51.4	49.5	45.9	44.6
72.5°	1596.1	1278.8	506.8	227.1	109.9	57.1	50.6	47.8	45.9	42.2	41.1
75°	1092.0	978.2	351.6	188.1	95.8	52.0	46.1	43.6	42.3	37.7	37.0
77.5°	797.7	734.3	225.0	139.7	73.9	45.7	40.7	38.8	37.9	32.8	32.0
80°	640.2	580.9	140.7	95.7	54.1	38.3	34.1	33.1	32.2	27.2	26.5
82.5°	444.0	389.1	90.4	62.1	40.7	29.7	27.0	26.5	25.3	20.7	20.0
85°	234.2	211.3	57.3	42.3	29.5	20.4	18.7	18.7	18.1	13.7	13.3
87.5°	29.9	48.7	29.1	22.1	16.2	9.1	9.1	8.9	9.5	7.8	6.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P299395

CATALOG NUMBER: GLNA-AF-01-LED-E1-SLR-7027-800

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6
2.5°	1046.2	1056.4	1046.7	1047.3	1058.0	1090.1	1104.6	1116.6	1129.5	1137.9	1141.6
5°	758.3	781.9	789.9	806.7	831.6	872.5	888.7	900.5	908.3	912.9	914.8
7.5°	518.6	532.9	548.9	576.1	630.2	654.3	665.0	662.2	653.4	650.2	647.1
10°	391.0	385.3	382.3	397.3	441.1	465.3	472.9	465.5	460.7	461.7	467.0
12.5°	302.9	293.0	281.0	279.3	308.2	329.9	334.7	335.1	344.0	351.7	363.4
15°	220.8	219.7	213.8	210.2	226.6	244.4	246.5	250.2	258.3	263.9	274.0
17.5°	155.7	161.3	166.0	168.3	180.7	193.3	191.1	189.1	187.7	187.7	192.5
20°	125.6	129.3	135.3	141.9	154.6	163.4	157.8	150.2	144.7	143.0	143.7
22.5°	113.1	116.1	119.4	125.3	136.7	142.8	136.7	131.2	125.8	123.8	123.2
25°	106.8	110.6	113.8	118.2	126.6	130.8	124.9	120.9	117.5	115.2	113.5
27.5°	103.2	106.6	107.4	109.6	116.7	120.5	117.5	115.9	113.8	111.7	109.6
30°	99.4	98.8	97.3	97.5	103.2	107.0	106.8	107.2	107.0	106.4	106.0
32.5°	90.8	89.5	88.3	89.5	94.8	98.1	98.4	99.2	99.2	99.0	100.7
35°	75.6	77.9	79.4	83.2	89.5	92.5	91.2	89.1	85.3	83.0	82.8
37.5°	70.0	70.3	72.9	78.1	85.1	87.8	86.0	81.1	78.6	78.1	78.8
40°	67.2	67.6	69.1	73.9	80.9	83.6	81.9	78.4	76.0	75.8	76.9
42.5°	65.3	65.7	66.6	70.0	75.6	79.0	79.2	76.6	73.9	74.2	75.2
45°	64.2	64.5	64.2	65.9	71.2	75.2	76.9	75.2	72.9	73.3	74.5
47.5°	64.0	63.4	62.6	63.0	68.5	72.4	74.5	73.9	72.9	73.3	74.4
50°	63.2	61.7	60.6	60.5	65.9	70.1	72.1	72.1	72.4	73.3	74.4
52.5°	60.6	59.0	59.0	58.3	64.2	68.2	69.5	69.7	70.3	71.8	73.3
55°	57.5	56.9	57.5	56.4	63.0	66.8	67.4	67.8	68.2	69.5	71.6
57.5°	54.8	53.9	55.4	55.0	61.9	65.3	65.3	66.1	66.1	67.8	69.5
60°	53.3	51.6	52.2	52.7	60.5	64.0	63.6	64.5	64.9	66.4	67.6
62.5°	51.4	49.9	49.9	51.0	58.8	62.1	61.9	62.6	64.2	64.7	65.9
65°	49.1	48.5	47.8	49.1	57.1	60.0	60.3	61.1	62.6	63.0	64.0
67.5°	46.7	47.0	45.7	47.0	55.6	57.9	57.9	59.6	60.3	61.1	62.1
70°	44.3	44.4	43.4	44.9	54.6	55.6	55.4	57.7	58.2	58.8	59.8
72.5°	41.1	41.1	40.7	42.8	52.9	53.3	52.9	54.8	55.0	55.6	56.1
75°	37.7	37.7	37.3	40.2	51.8	50.8	49.5	51.0	51.4	51.8	51.8
77.5°	33.3	33.7	33.7	37.3	48.2	49.7	45.5	46.4	47.0	47.2	46.6
80°	27.8	28.9	29.3	33.9	40.4	45.9	40.7	41.3	41.5	41.5	40.7
82.5°	21.3	23.1	24.2	29.3	31.0	38.5	35.4	36.0	35.4	34.1	33.7
85°	14.7	17.3	18.6	22.3	23.4	29.7	29.5	29.5	28.2	26.5	26.3
87.5°	8.0	9.5	10.3	13.3	16.0	20.0	21.7	21.0	20.0	18.9	19.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





REPORT NUMBER: P299395

CATALOG NUMBER: GLNA-AF-01-LED-E1-SLR-7027-800

**CANDELA DISTRIBUTION (continued):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6
2.5°	1161.5	1190.1	1235.8	1270.8	1306.0	1339.9	1376.6	1404.6	1428.3	1437.7	1465.8
5°	934.0	969.8	1013.0	1090.9	1146.1	1206.9	1277.3	1370.4	1406.2	1455.8	1536.8
7.5°	660.4	692.8	762.3	825.3	903.5	989.6	1084.6	1213.1	1260.1	1339.5	1471.5
10°	493.1	530.8	586.6	639.7	708.6	796.7	905.8	1049.4	1106.5	1192.7	1344.7
12.5°	397.3	441.7	500.9	550.8	604.1	666.3	772.2	929.7	1006.3	1081.6	1235.4
15°	305.2	351.7	406.8	470.2	528.9	595.9	706.9	879.2	967.2	1045.9	1177.0
17.5°	211.3	251.1	320.4	386.5	461.7	547.5	688.8	890.0	995.0	1085.7	1187.2
20°	149.8	172.5	229.4	306.1	399.8	507.4	685.4	946.4	1083.1	1186.5	1252.0
22.5°	125.9	134.4	167.5	237.8	346.1	477.5	697.2	1025.6	1201.9	1334.0	1355.5
25°	114.8	119.9	137.1	186.6	298.2	455.8	737.0	1143.6	1349.0	1481.5	1477.6
27.5°	108.7	114.0	125.3	157.6	262.3	442.4	776.8	1283.5	1517.0	1641.5	1594.3
30°	106.8	114.0	125.9	148.5	236.6	421.1	809.5	1406.2	1646.4	1749.6	1647.5
32.5°	105.3	106.4	111.8	128.0	212.1	396.2	831.6	1516.4	1773.0	1852.4	1723.9
35°	85.1	90.4	99.2	114.8	197.8	381.3	831.6	1611.4	1897.7	1956.2	1796.8
37.5°	81.9	86.6	94.4	107.6	189.8	373.9	815.0	1703.1	2025.1	2074.0	1856.8
40°	80.3	84.0	91.4	102.2	186.4	365.5	790.7	1783.9	2149.6	2191.9	1912.9
42.5°	79.0	82.4	89.3	98.8	182.0	356.2	771.2	1848.8	2257.7	2292.6	1966.4
45°	78.4	81.9	89.5	100.5	173.1	344.0	764.6	1918.9	2346.5	2376.6	2024.3
47.5°	78.4	82.6	90.6	104.1	162.6	331.3	785.1	2011.4	2430.6	2445.3	2092.5
50°	77.7	82.4	93.5	100.5	147.2	315.3	833.1	2127.9	2521.6	2523.3	2178.9
52.5°	76.5	81.9	100.7	98.4	129.5	294.3	898.0	2277.5	2656.2	2666.3	2314.1
55°	75.0	81.3	98.8	93.5	115.0	269.2	951.0	2459.2	2845.3	2873.3	2513.0
57.5°	73.1	80.5	95.7	86.8	105.5	237.0	970.2	2592.4	2977.4	3047.7	2737.1
60°	71.4	79.8	86.3	82.8	99.6	209.8	933.1	2566.0	2968.4	3120.0	2935.7
62.5°	69.7	80.5	78.8	80.3	96.9	192.3	836.3	2355.2	2818.2	3045.4	3082.9
65°	67.8	74.8	74.4	78.1	96.3	185.4	693.2	2039.0	2527.9	2809.8	3117.7
67.5°	65.3	69.1	71.2	75.4	98.4	179.3	559.4	1682.0	2124.5	2456.5	2936.5
70°	62.6	65.7	68.0	72.1	97.1	176.5	465.3	1326.4	1685.8	2013.3	2579.1
72.5°	59.0	61.7	63.8	67.6	95.8	175.0	393.1	1068.2	1258.6	1495.6	2097.0
75°	54.8	57.3	58.8	62.6	91.8	160.3	309.0	903.9	941.8	1040.4	1670.2
77.5°	49.9	51.8	53.1	57.3	81.3	133.3	223.5	697.2	731.4	755.3	1280.5
80°	44.3	46.1	46.7	50.8	67.4	104.3	145.8	515.0	547.0	552.5	836.3
82.5°	37.7	39.6	39.6	43.4	55.2	75.0	95.7	352.8	359.1	377.7	591.1
85°	30.4	31.8	31.8	33.7	42.8	56.1	65.7	177.1	175.2	200.1	512.1
87.5°	21.7	22.8	23.8	24.2	30.5	37.0	39.6	53.9	35.6	40.9	328.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P299395

CATALOG NUMBER: GLNA-AF-01-LED-E1-SLR-7027-800

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6	1294.6
2.5°	1487.1	1499.1	1486.9	1478.1	1440.0	1408.6	1366.6	1345.1
5°	1598.5	1629.1	1618.8	1581.7	1502.1	1412.5	1310.8	1264.9
7.5°	1585.1	1656.1	1657.7	1588.5	1471.1	1339.3	1201.5	1136.2
10°	1480.2	1570.9	1596.9	1529.7	1405.2	1257.8	1099.7	1025.2
12.5°	1363.0	1451.9	1471.8	1448.6	1344.6	1196.4	1036.2	963.0
15°	1267.2	1307.1	1330.6	1350.9	1292.5	1172.0	1032.5	952.3
17.5°	1208.9	1204.5	1211.2	1246.4	1256.2	1200.0	1087.3	998.9
20°	1187.8	1120.2	1118.5	1167.0	1239.2	1266.8	1194.3	1088.1
22.5°	1199.4	1089.9	1076.0	1133.5	1248.3	1363.0	1334.6	1213.5
25°	1239.4	1092.4	1081.2	1136.9	1281.1	1465.7	1486.1	1375.7
27.5°	1302.4	1108.4	1093.6	1150.8	1324.7	1551.8	1635.2	1532.9
30°	1362.2	1136.2	1117.9	1178.1	1364.5	1585.9	1726.7	1655.4
32.5°	1434.9	1188.3	1156.0	1228.4	1413.8	1640.2	1808.2	1756.9
35°	1506.1	1262.4	1222.4	1306.2	1468.8	1707.9	1901.3	1886.7
37.5°	1584.3	1359.3	1326.2	1406.7	1544.0	1771.7	2020.1	2038.8
40°	1667.7	1487.8	1448.6	1553.3	1660.7	1851.8	2144.1	2189.2
42.5°	1751.7	1630.4	1583.6	1689.7	1789.0	1930.7	2250.3	2317.1
45°	1847.9	1785.2	1763.1	1877.9	1912.2	2006.0	2328.6	2411.7
47.5°	1960.0	1960.9	1996.5	2042.4	2036.5	2091.0	2407.4	2496.1
50°	2090.8	2180.1	2258.7	2289.2	2164.6	2182.5	2516.7	2609.2
52.5°	2248.0	2442.4	2539.7	2519.7	2302.5	2294.1	2689.9	2765.1
55°	2444.5	2720.0	2816.7	2802.4	2461.1	2446.2	2905.6	2949.4
57.5°	2672.0	2989.0	3077.9	3013.4	2651.6	2613.0	3084.0	3093.3
60°	2871.9	3202.2	3280.1	3208.7	2843.7	2790.6	3195.4	3150.5
62.5°	2983.1	3274.4	3329.2	3252.3	2975.3	2979.7	3219.9	3119.6
65°	2933.4	3091.8	3109.5	3103.2	2941.4	3089.4	3132.0	2976.6
67.5°	2661.2	2630.1	2659.8	2700.8	2650.7	2945.0	2888.7	2665.0
70°	2181.8	2010.6	2069.8	2097.3	2120.1	2534.2	2507.2	2170.7
72.5°	1644.3	1408.6	1455.3	1449.6	1554.9	2032.7	1949.9	1596.1
75°	1165.0	955.1	960.9	958.6	1085.0	1590.3	1412.0	1092.0
77.5°	815.2	692.0	695.1	708.1	729.4	1199.4	1008.8	797.7
80°	560.5	525.1	542.6	543.7	505.6	805.7	745.3	640.2
82.5°	417.5	365.0	360.8	366.9	396.2	652.8	572.7	444.0
85°	341.9	216.1	173.8	217.8	351.1	646.5	380.4	234.2
87.5°	192.5	102.6	46.4	86.0	140.1	428.0	109.9	29.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)